



December 4, 2014

Douglas Frasier
VPDES Permit Writer, Senior II
Certified Nutrient Management Planner
Regional Toxics Management Program Coordinator
Department of Environmental Quality
Northern Regional Office
13901 Crown Court, Woodbridge, VA 22193

Re:

Transmittal

VPDES Permit Application Addendum

VPDES Permit No. VA0090093

John Marshall III Site McLean, Virginia 22102

Dear Mr. Frasier:

Beacon Capital Partners has enclosed completed copies of the following for our Outfall No. 1 associated with the John Marshall III Site in McLean, Virginia:

- VPDES Permit Application Addendum (Enclosure 1)
- Form 1 USEPA General Information Consolidated Permits Program (Enclosure 2), and
- Form 2C USEPA Existing Manufacturing, Commercial, Mining and Silviculture Operations (Enclosure 3).

In addition to the forms, the location map and source groundwater (prior to treatment) laboratory reports are attached (Enclosures 4 and 5).

The application has been provided as we continue to gather data on the groundwater and outfall. Additional data for Form 2C, sections V.A. and V.B. are being developed and will be forwarded as soon as they are received from the laboratory.

As you are aware, the discharge is treated groundwater that originated at an offsite source that was neither owned nor operated by Beacon Capital Partners. Beacon Capital Partners have collected and treated this water for more than seven (7) years with no contribution from the responsible party. Beacon Capital Partners would like to meet with you as soon as the supplemental data are available



to discuss the de minimis nature of the discharge and the process for termination of the treatment and monitoring.

Respectfully submitted,

Tim Incheck

Associate Vice President

Enclosures

Cc: Robin Burke, Beacon Capital Partners

Edward Stuart, VDEQ

Rebecca Johnson, VDEQ

Michael Ellis, TRC

John Black, TRC

Enclosure 1 VPDES Permit Application Addendum

VPDES PERMIT APPLICATION ADDENDUM

1.	Who will be legally responsible for the wastewater treatment not be the facility or property owner.			liance wii	th the peri	mit? This	may or may
2.	Is this facility located within city or town boundaries?	Yes	No				
3.	Please provide the tax map parcel number for the land w	here the di	scharge	is located	l: <u>0293 1</u>	5 0002	
4.	For the facility to be covered by this permit, how many a construction activities? $\underline{\underline{}}$	cres will be	e disturb	ed durin	g the nex	t five year	s due to new
5.	What is the design average flow of this facility in million industrial facilities, provide the maximum 30-day averag 1,080,000 gallons	e productio)) For
6.	In addition to the design flow or production level, should flow tiers or production levels? Yes No If yes, please identify the other flow tiers in MGD: Please consider the following as you answer the questions in applicable): Do you plan to expand operations during the ne greater than your current flow?	a #5 above f	or both ti	he flow ti	ers and th	ne producti	on levels (if
	Nature of operations generating wastewater:				-	-	low grade
		rces					
max	Mode of discharge: Continuous X I Describe frequency and duration of intermittent and seasona kimum 25 GPM flow. Level controls start and shut off transference a function of the flow from the groundwater collection	l discharges er pumps fr	: The	sump pui	nps to a s		
9.	Identify the characteristics of the receiving stream at the	point <u>just :</u>	above the	e facility	's dischai	rge point(s	s):
	Stream Characteristic	1		Out	all Numb	ber	
	Permanent stream, never dry	1			+	-	
	Intermittent stream, usually flowing, sometimes dry						
	Ephemeral stream, wet-weather flow, often dry	X					
	Effluent_dependent stream_usually_or always dry		+				

10. Approval date(s), if applicable:

Other:

Lake or pond at or below discharge point

O & M Manual	Sludge/Solids Managemer	ıt Plan	
Have there been changes in	your operation or procedures since the a	bove approval dates? Yes	No
serve, 50 or more residence that you are incorporated in regulations and relevant ord Companies (LLCs), Limited	nt Works: If this application is for a prist, you must include with your application the Commonwealth and verification from the State Corporation Commission I Partnerships (LPs) and certificates of a sterials stored at the facility. Please conterior that the stored is the stored at the facility.	n notification from the State m the SCC that you are in con. Incorporated also include uthority.	Corporation Commission ompliance with all s Limited Liability
more room is necessary.	terials stored at the facility. Trease co	implete the table below of a	attach another page n
	Material St	orage	
Materials Desc	ription Volume Sto	ored Spill/Stor	mwater Prevention Measures
permit:	nd email addresses for personnel who	will be involved with the r	
Name	Title		E-mail Address
Tim Incheck John Black	Associate Vice Presid		k@cassidyturley.com RCSolutions.com
John Black	Consultant	јрогаске т	RC50iutions.com
_			
issuances, reissuances, modi applicants or permittees, by a mail electronically (§ 10.1-1 mail from DEQ as follows: X Applicant or permi	mental Quality (DEQ) may deliver perifications, revocation and reissuances, termelectronically certified mail where the recipelectronically certified mail where the recipelectronic mail that the critical certified mail where the recipelectronic mail that the critical certified mail where the recipelectronic mail that the critical certified mail where the recipelectronical certified mail where the recipelectronic mail that the certified mail that th	ninations and denials) to recip pients notify DEQ of their cor to consent to or decline receip the permit that may be issued for	ients, including nsent to receive pt of electronic or the proposed
Applicant or permittee			

Enclosure 2

Form 1 – USEPA General Information – Consolidated Permits Program

SEPA

Permits Division

Application Form 1 – General Information

Consolidated Permits Program

This form must be completed by all persons applying for a permit under EPA's Consolidated Permits Program. See the general instructions to Form 1 to determine which other application forms you will need.

Form	Annroyad	OMB No	2040-0086

	i in the unshau		<u> </u>		DDOTEOT			1	Approved. ONB 140. 2040-0	500.	_		
				ONMENTAL PROTECTION AGENCY NERAL INFORMATION				I. EPA I.D. NUMBER					C
1	\$EPA				Permits Prog			F				.,,,	D
GENERAL		(Read the "General Instructions" before starting.)					1	2		13	14	15	
LABEI	ITEMS	GENERAL INSTRUC If a preprinted label has been produced to the produced label has been produced by the produced label has been produced label has bee								provide	d, affix		
I. EPA I.D.	I. EPA I.D. NUMBER designated space. Review the informa is incorrect, cross through it and enter appropriate fill-in area below. Also, if an							ter the any of	correct the pre	data ii printed	in the I data		
III. FACILITY	' NAME	PLEASE	PLA	CE LA	BEL IN THIS	s s	SPACE	info	bsent (the area to the left of mation that should appear), plean area(s) below. If the label is of	se prov	vide it ir	the p	roper
V. FACILITY ADDRES	' MAILING S							nee	d not complete Items I, III, V, a t be completed regardless). Con	nd VI (nplete a	(except all items	VI-B v s if no	which label
VI. FACILITY		-						des	been provided. Refer to the inscriptions and for the legal author is collected.				
II. POLLUTANT	II. POLLUTANT CHARACTERISTICS												
submit this form	INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms .												
	SPECIFIC QL	JESTIONS	YES	NO	FORM ATTACHED		SPECIFIC	C QUE	ESTIONS	YES	NO	FOI ATTA	
		ned treatment works which ers of the U.S.? (FORM 2A)				В	include a concentrated aquatic animal produc	anin	her existing or proposed) nal feeding operation or facility which results in a				
C le this a fac	ility which curren	itly results in discharges to	16	17	18	Г	discharge to waters of the		S.? (FORM 2B) r than those described in A	19	20	2	.1
	he U.S. other tha	in those described in A or B	22	23	24				a discharge to waters of	25	26	2	27
	ill this facility t wastes? (FORM	reat, store, or dispose of 3)				F	municipal effluent be	low	t this facility industrial or the lowermost stratum				
			28	29	30		containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)				32	3:	i3
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons?						Н	processes such as mining	g of surals, in	nis facility fluids for special ulfur by the Frasch process, in situ combustion of fossil energy? (FORM 4)				
(FORM 4)	v a proposed sta t	tionary source which is one	34	35	36	J	. Is this facility a propose	ed st	ationary source which is	37	38	31	19
of the 28 ind which will p pollutant reg	lustrial categories otentially emit 10 julated under the	listed in the instructions and 00 tons per year of any air Clean Air Act and may affect					NOT one of the 28 inc instructions and which w year of any air pollutant r	dustria vill po egula	al categories listed in the tentially emit 250 tons per ted under the Clean Air Act				
or be located	d in an attainment	t area? (FORM 5)	40	41	42		and may affect or be log (FORM 5)	ocate	d in an attainment area ?	43	44	45	15
III. NAME OF	FACILITY												
1 SKIP 15 16 - 29 30			•			•				69			
IV. FACILITY	CONTACT					İ	i						
С		A. NAME & TITLE (last	f, first,	& title)				E	3. PHONE (area code & no.)				
2 15 16							45	46	48 49 51 52- 5	55			
-	ILING ADDRESS	8					45	-10	70 T0 31 32° C				
		A. STREET OR P	.O. BC	ΟX									
3													
15 16		B. CITY OR TOWN					C. STATE	D 7	IP CODE				
c								1					
15 16							40 41 42 47		51				
VI. FACILITY		DEET DOUTENO OD OTHE	D 0 D		DENTIFIE	_							
5	A. 51F	REET, ROUTE NO. OR OTHE				=K							
15 16		B. COUNTY	/ NAM	IE		_	45						
46	1 1		1 7		1 1	T		70					
		C. CITY OR TOWN					D. STATE		P CODE F. COUNTY CO	ODE (if know	n)	
6 15 16													

VII. SIC CODES (4-digit, in order of priority)	
A. FIRST C (specify) Operators of a Nonresidential Building	B. SECOND
7 6512 (specify) operators of a Nonresidential Building	$\frac{c}{7}$ (specify)
15 16 - 19	15 16 - 19
C. THIRD	D. FOURTH
C (specify)	c (specify)
15 16 - 19	15 16 - 19
VIII. OPERATOR INFORMATION	
A. NAME	B.Is the name listed in Item
8 Tim Incheck	VIII-A also the owner?
15 16	
C. STATUS OF OPERATOR (Enter the appropriate letter into the	
	answer box: if "Other," specify.) D. PHONE (area code & no.) pecify) System automated, owner maintains as
S = STATE $ M = PUBLIC (other than federal or state) D no$	eeded. Sampling conducted by TRC (703) 902-6666
P = PRIVATE O = OTHER (specify)	ingineering, laboratory analyses by EMSL
56	15 6 - 18 19 - 21 22 - 26
E. STREET OR P.O. BOX	
8251 Greensboro Drive, B100	
26	55
F. CITY OR TOWN	G. STATE H. ZIP CODE IX. INDIAN LAND
B McLean	VA 22102 ☐ YES ☑ NO
15 16	40 41 42 47 - 51
X. EXISTING ENVIRONMENTAL PERMITS	
	nissions from Proposed Sources)
	ussions from 1 roposed sources)
9 N 9 P	
15 16 17 18 30 15 16 17 18	30
B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
	Specify) Virginia Pollutant Discharge
9 0 4	ė.
15 16 17 18	30 E OTHED (************************************
C T C T	E. OTHER (specify)
9 R 9	(spectyy)
15 16 17 18 30 15 16 17 18	. 30
XI. MAP	
Attach to this application a topographic map of the area extending to at least one	mile beyond property boundaries. The map must show the outline of the facility, the
location of each of its existing and proposed intake and discharge structures, each	of its hazardous waste treatment, storage, or disposal facilities, and each well where it l
injects fluids underground. Include all springs, rivers, and other surface water bodies	in the map area. See instructions for precise requirements.
XII. NATURE OF BUSINESS (provide a brief description)	
Office building with below grade parking. Below grade	parking encountered static water table. Groundwater
had been impacted by an offsite facility closed under the	ne Virginia Voluntary Remediation Program.
	* -
*	
*	
*	
,	
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and am familiar with the	the information submitted in this application and all attachments and that, based on my
I certify under penalty of law that I have personally examined and am familiar with the inquiry of those persons immediately responsible for obtaining the information containing the i	ined in the application. I believe that the information is true, accurate, and complete I
I certify under penalty of law that I have personally examined and am familiar with the inquiry of those persons immediately responsible for obtaining the information conta am aware that there are significant penalties for submitting false information, including	ined in the application. I believe that the information is true, accurate, and complete I
I certify under penalty of law that I have personally examined and am familiar with the inquiry of those persons immediately responsible for obtaining the information contains am aware that there are significant penalties for submitting false information, including A. NAME & OFFICIAL TITLE (type or print) B. SIGNATURE	ined in the application. I believe that the information is true, accurate, and complete I
I certify under penalty of law that I have personally examined and am familiar with the inquiry of those persons immediately responsible for obtaining the information contains am aware that there are significant penalties for submitting false information, including A. NAME & OFFICIAL TITLE (type or print) B. SIGNATURE Tim Incheck	ined in the application, I believe that the information is true, accurate, and complete. I githe possibility of fine and imprisonment.
I certify under penalty of law that I have personally examined and am familiar with the inquiry of those persons immediately responsible for obtaining the information contains am aware that there are significant penalties for submitting false information, including A. NAME & OFFICIAL TITLE (type or print) B. SIGNATURE	ined in the application, I believe that the information is true, accurate, and complete. I githe possibility of fine and imprisonment.
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EPA Form 3510-1 (8-90)

Enclosure 3

Form 2C – USEPA Existing Manufacturing, Commercial, Mining and Silviculture Operations

Office of Enforcement Washington, DC 20460 EPA Form 3510-2C Revised August 1990 Previous editions are obsolete

Permits Division

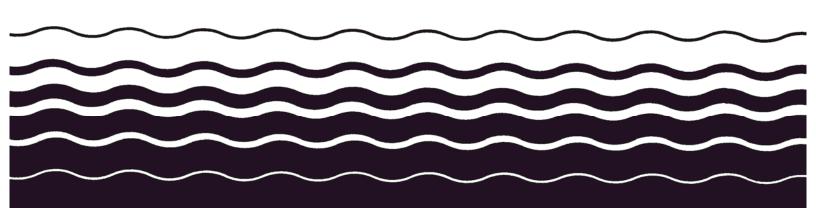


Application Form 2C – Wastewater Discharge Information

Consolidated Permits Program

This form must be completed by all persons applying for an EPA permit to discharge wastewater (existing manufacturing, commercial, mining, and silvicultural operations).





Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

Please print or type in the unshaded areas only.

FORM Ω CDV

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS

Consolidated Permits Program

26		A
NPDES		

I. OUTFALL LOCATION								
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.								
A. OUTFALL NUMBER	FALL NUMBER B. LATITUDE C. LONGITUDE							
(list)	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)	
1	38	55	17	77	14	18	Old Courthouse Spring Branch	

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if

1. OUT-	2. OPERATION(S) C	ONTRIBUTING FLOW	3. TREATMENT					
1. OUT- FALL NO. (<i>list</i>)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COL TABLE	b. LIST CODES FROM TABLE 2C-1			
1	Groundwater Treatment System	25 GPM	Surge Tank	1	0			
			Tray Air Stripper					
			Discharge	4	A			
	HOE ONLY (m , , , , , , , , , , , , , , , , , ,							

OFFICIAL USE ONLY (effluent guidelines sub-categories)

CONTINUED FF	ROM THE F	RONI														
C. Except for st				of the disch	narges described				isonal?							
	YES (comp	lete the follo	wing table)				NO (go to Sec	ction III)								
							QUENCY			4. FLOV		/OLUME				
			PERATION(s)		a. DAYS WEE	K	b. MONTHS	a. FLOW RA	ATE (in mgd)	(sp						
1. OUTFALL NUMBER (list)		CONTR	RIBUTING FLOV (list)	V	(specif average		PER YEAR (specify average)	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TAVERA		2. MAXIMU DAILY	C. DURATION (in days)			
III. PRODUCTIO	ON															
A. Does an efflu	uent guidelir	ne limitation	promulgated	by EPA u	ınder Section 304	of th	ne Clean Water	Act apply to yo	ur facility?							
	YES (comp	lete Item III	B)			✓	NO (go to Sec	ction IV)								
B. Are the limita			•	line expre	ssed in terms of	produ	¬ `		eration)?							
0 15		lete Item III-	-	414			NO (go to Sec				41 4-					
			dicate the aff		represents an acalls.	ctuai	measurement	or your level or	production, ex	pressea in	tne te	erms and u	nits used in the			
		1	1. AV	ERAGE D	AILY PRODUCT					- 2	. AFFE	ECTED OL	JTFALLS			
a. QUANTITY	PER DAY	b. UNITS	OF MEASU	RE	c. OPER	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)						(list outfall numbers)				
							(~F95)									
IV. IMPROVEM	ENTS															
					uthority to meet tal programs whi											
					nforcement comp											
	YES (comp	lete the follo	wing table)			. ✓	NO (go to Ite	m IV-B)								
1. IDENTIFICA	TION OF C	ONDITION,	2. AFI	ECTED (OUTFALLS		2 DDIEE	DESCRIPTION		-	4. FII	NAL COM	PLIANCE DATE			
AGRE	EMENT, ET	C.	a. NO.	b. SOURC	E OF DISCHARGE	-	J. DRIEF	DESCRIPTION	I OF PROJECT	ı	a. RE	QUIRED	b. PROJECTED			
					g any additional ndicate whether e											
construction									and inc	you	Solud	. o. piainic	_ 55544.65 101			
ı II	MARK "X"	IF DESCRIF	PTION OF A	DITIONA	L CONTROL PR	OGR.	AMS IS ATTAC	CHED								

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTER	RISTICS		
NOTE: Tables V-A, V-B, and \	eding – Complete one set of tables for each of of t	red V-1 through V-9.	
D. Use the space below to list any of the from any outfall. For every pollutant yo	pollutants listed in Table 2c-3 of the instructure ulist, briefly describe the reasons you believe	tions, which you know or have reason to be ve it to be present and report any analytical of	elieve is discharged or may be discharged data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Vinyl Chloride trans-1,2,-Dichloroethene cis-1,2-Dichloroethene Trichloroethylene	Groundwater Groundwater Groundwater Groundwater		
VI. POTENTIAL DISCHARGES NOT COV			
Is any pollutant listed in Item V-C a substa YES (list all such pollutants	nce or a component of a substance which y $below$)	ou currently use or manufacture as an intern NO (go to Item VI-B)	nediate or final product or byproduct?

EPA Form 3510-2C (8-90) PAGE 3 of 4 CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA								
Do you have any knowledge or reason to bel relation to your discharge within the last 3 ye	ieve that any biological test for acute or chronic toxici	ty has been made on any of your di	scharges or on a receiving water in					
YES (identify the test(s) and describe their purposes below) VES (identify the test(s) and describe their purposes below)								
	derive their purposes below;	(go to Section VIII)						
VIII. CONTRACT ANALYSIS INFORMATION								
	performed by a contract laboratory or consulting firm?		CARLO CALIFORNIA DE LA					
▼ YES (list the name, address, an each such laboratory or fir	d telephone number of, and pollutants analyzed by,	NO (go to Section IX)						
		C. TELEPHONE	D. POLLUTANTS ANALYZED					
A. NAME	B. ADDRESS	(area code & no.)	(list)					
Phase Seperation Science, Inc.	6630 baltimore National Pike	(410) 747-8770	рн					
	Baltimore, Maryland 21228		Vinyl Chloride trans-1,2-Dichloroethene					
	.*		cis-1,2-Dichloroethene Trichloroethene					
			Trichioroethene					
EMSL Analytical, Inc.	200 Route 130 North	(856) 303-2500	Vinyl Chloride					
	Cinnaminson, NJ 08077		trans-1,2-Dichloroethene					
			cis-1,2-Dichloroethene Trichloroethene					
	•							
			i i					
IX. CERTIFICATION		TERROR SERVICE						
I certify under penalty of law that this docum	nent and all attachments were prepared under my dire	ection or supervision in accordance	with a system designed to assure that					
qualified personnel properly gather and evaluation	aluate the information submitted. Based on my inquation, the information submitted is, to the best of my l	iry of the person or persons who i	manage the system or those persons					
are significant penalties for submitting false	ation, the information submitted is, to the best of my l information, including the possibility of fine and impris	nowledge and beliet, true, accurate onment for knowing violations.	, ана сотрете. I am aware that there					
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code & no.)						
John P. Black, P.E., Managing	Principal/Unit Leader	(703) 251-4845						
C. SIGNATURE		D. DATE SIGNED						
(with to	Vel	12/4/20	14					
V / 1		' /	1					

EPA Form 3510-2C (8-90)

PAGE 4 of 4

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

VAD988200432

EPA I.D. NUMBER (copy from Item 1 of Form 1)

b. NO. OF ANALYSES b. NO. OF ANALYSES CONTINUE ON REVERSE Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements. 5. INTAKE (optional) (2) MASS a. LONG TERM AVERAGE VALUE (2) MASS 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION (1) CONCENTRATION **VALUE** VALUE b. MASS b. MASS STANDARD UNITS 3. UNITS (specify if blank) 4. UNITS a. CONCENTRATION ပ္ပ ပွ a. CONCENTRATION PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. d. NO. OF ANALYSES d. NO. OF ANALYSES c. LONG TERM AVRG. VALUE (if available) (2) MASS (2) MASS c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION (1) CONCENTRATION b. MAXIMUM 30 DAY VALUE (if available) 3. EFFLUENT (2) MASS VALUE VALUE VALUE 2. EFFLUENT (1) CONCENTRATION b. MAXIMUM 30 DAY VALUE (if available) (2) MASS MAXIMUM (1) CONCENTRATION a. MAXIMUM DAILY VALUE (2) MASS MUMINIM VALUE VALUE VALUE (1) CONCENTRATION MAXIMUM a. MAXIMUM DAILY VALUE (2) MASS (1) CONCENTRATION b. BELIEVED ABSENT MINIMUM 2. MARK "X" VALUE VALUE VALUE a. BELIEVED PRESENT c. Total Organic Carbon Biochemical Oxygen b. Chemical Oxygen Demand (COD) 1. POLLUTANT d. Total Suspended Solids (TSS) e. Ammonia (as N) a. Biochemical (Demand (BOD)g. Temperature h. Temperature 1. POLLUTANT Chlorine, Total d. Fecal Coliform CAS NO. (if available) f. Nitrate-Nitrite a. Bromide (24959-67-9) e. Fluoride (16984-48-8) PART B-(summer) b. Chlorin Residual f. Flow (winter) c. Color (*TOC*) (as N) i. pH

EPA Form 3510-2C (8-90)

b. NO. OF ANALYSES CONTINUE ON PAGE V-3 5. INTAKE (optional) (1) CONCENTRATION (2) MASS a. LONG TERM AVERAGE VALUE 4. UNITS a. CONCENTRATION d. NO. OF ANALYSES c. LONG TERM AVRG. VALUE (if available) (2) MASS (1) CONCENTRATION b. MAXIMUM 30 DAY VALUE (if available) 3. EFFLUENT (2) MASS (1) CONCENTRATION a. MAXIMUM DAILY VALUE (2) MASS (1) CONCENTRATION b. BELIEVED ABSENT ITEM V-B CONTINUED FROM FRONT 2. MARK "X" a. BELIEVED PRESENT 1. POLLUTANT AND CAS NO. (if available) g. Nitrogen, Total Organic (as (4) Radium 226, Total p. Barium, Total (7440-39-3) u. Molybdenum, Total (7439-98-7) r. Cobalt, Total (7440-48-4) v. Manganese, Total (7439-96-5) q. Boron, Total (7440-42-8) (1) Alpha, Total i. Phosphorus (as P), Total (7723-14-0) . Radioactivity (2) Beta, Total t. Magnesium, Total (7439-95-4) k. Sulfate $(as SO_4)$ (14808-79-8) I. Sulfide (as S)
m. Sulfite (as SO₃)
(14265-45-3) o. Aluminum, Total (7429-90-5) n. Surfactants s. Iron, Total (7439-89-6) w. Tin, Total (7440-31-5) (3) Radium, Total x. Titanium, Total (7440 - 32 - 6)h. Oil and Grease

OUTFALL NUMBER	1
EPA I.D. NUMBER (copy from Item I of Form I)	VAD988200432

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-c for each pollutant you believe is absent. Bark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe it will be provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements. CONTINUED FROM PAGE 3 OF FORM 2-C

b. NO. OF ANALYSES 5. INTAKE (optional) CONCENTRATION (2) MASS a. LONG TERM AVERAGE VALUE b. MASS 4. UNITS a. CONCENTRATION ANALYSES d. NO. OF (1) CONCENTRATION (2) MASS c. LONG TERM AVRG. VALUE (if available) b. MAXIMUM 30 DAY VALUE (2) MASS 3. EFFLUENT (if available) (1) CONCENTRATION a. MAXIMUM DAILY VALUE (2) MASS DESCRIBE RESULTS (1) CONCENTRATION b. c. BELIEVED BELIEVED PRESENT ABSENT METALS, CYANIDE, AND TOTAL PHENOLS 2. MARK "X" a. TESTING REQUIRED 4M. Cadmium, Total (7440-43-9) 1M. Antimony, Total 3M. Beryllium, Total CAS NUMBER 8M. Mercury, Total (7439-97-6) 11M. Silver, Total 12M. Thallium, Total (7440-28-0) 1. POLLUTANT 2M. Arsenic, Total (7440-38-2) Dioxin (1764-01-6) 6M. Copper, Total (7440-50-8) 5M. Chromium, Total (7440-47-3) Total (7782-49-2) 13M. Zinc, Total (if available) 2,3,7,8-Tetra-chlorodibenzo-P-9M. Nickel, Total 15M. Phenols, Total 7M. Lead, Total Total (57-12-5) 10M. Selenium, 14M. Cyanide, (7440-66-6) (7440-22-4)(7439-92-1)(7440-36-0)(7440-41-7)(7440-02-0)DIOXIN

CONTINUED FROM THE FRONT

	2.	2. MARK "X"				3. E	3. EFFLUENT				4. UNITS	TS	5. INTAI	5. INTAKE (optional)	
1. POLLUTANT AND	in	نه	ú	a. MAXIMUM DAILY VALUE	ILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	DAY VALUE	c. LONG TERM AVRG. VALUE (if available)					a. LONG TERM AVERAGE VALUE		
	TESTING E	VED	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	ASS	b. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS	- VOLATILE	COMPOU	NDS										•		
1V. Accrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			×												
4V. Bis (<i>Chloromethyl</i>) Ether (542-88-1)				DELISTED	02-4-81	ANALYSIS	NOT	REQUIRED	FOR	THIS					
5V. Bromoform (75-25-2)			×												
6V. Carbon Tetrachloride (56-23-5)			×												
7V. Chlorobenzene (108-90-7)			×												
8V. Chlorodi- bromomethane (124-48-1)			\times												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichloro- bromomethane (75-27-4)			×												
13V. Dichloro- difluoromethane (75-71-8)			_	DELISTED	01-8-81	ANALYSIS	NOT	REQUIRED	FOR	THIS					
14V. 1,1-Dichloro- ethane (75-34-3)			×												
15V. 1,2-Dichloro- ethane (107-06-2)			\times												
16V. 1,1-Dichloro- ethylene (75-35-4)		×													
17V. 1,2-Dichloro- propane (78-87-5)			×												
18V. 1,3-Dichloro- propylene (542-75-6)			\times												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)															
21V. Methyl Chloride (74-87-3)															
EPA Form 3510-2C (8-90)	(8-90)						PAGE V-4	1.4					CON	CONTINUE ON PAGE V-5	AGE V-5

CONTINUED FROM PAGE V-4

Market Delication Concentration Concen		2. MA	2. MARK "X"				3. E	3. EFFLUENT				4. UNITS	LS	5. INTAK	5. INTAKE (optional)	
Part		ej.	ف	ú	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availat	DAY VALUE	c. LONG TERM VALUE (if avai					a. LONG TERM AVERAGE VALUE		
CTION - VOLATILE COMPOUNDS (continued)		ESTING BEL	LIEVED BI		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		(2) MASS	d. NO. OF		b. MASS	(1) CONCENTRATION	ASS	b. NO. OF ANALYSES
Parison	RACTION -	VOLATILE C	OMPOUN	IDS (conti	'nued')			•		•		•	•			
The part	lylene 75-09-2)			X												
18-4	2,2- roethane			×												
February	achloro- 127-18-4)			X												
Septembries	ane (×												
CTION - ACID COMPOUNDS COMPOUNDS CTION - ACID COMPOUNDS CTION -	rans- hylene)			×												
DELISTED NOT REQUIRED FOR DELISTED OT-8-81 ANALYSIS NOT REQUIRED FOR POR	-Trichloro- 1-55-6)			X												
DELISTED O1-8-1 ANALYSIS NOT REQUIRED FOR	:-Trichloro- 9-00-5)			X												
OFFISTED O1-8-81 ANALYSIS NOT REQUIRED FOR Indicate Indicate FOR Indicate FOR Indicate FOR Indicate Ind	loro- 79-01-6)		X													
Induction X	lloro- nane				DELISTED	01-8-81	ANALYSIS	NOT	REQUIRED	FOR	THIS					
ccrioN – AciD CoMPOUNDS phenol 33-2) 33-2) 37-9) co-0- 22-1) co-0- 22-1) co-0- 23-5) co-0- 23-5) co-0- 23-6) A-1- co-0- 23-6) A-1-	Chloride	×														
brenol	RACTION -,	ACID COMPO	SOUNDS													
133-2) 141yl- 17-9) 17-9) 17-9) 17-9) 17-9 17-9 17-9 17-9 17-9 17-9 17-9 17-9	orophenol			X												
htyl- 77-9) 77-9) 77-9 77-9 7-0- 72-1) 7-0- 7-0- 8-6) 8-6) 7-0- 8-6) 7-1 7-1 7-1 7-1 7-1 7-1 7-1 7-1 7-1 7-1	chloro- :0-83-2)			X												
enol X en	methyl- 15-67-9)			X												
enol	nitro-O- 4-52-1)			X												
enol	nitro- -28-5)			X												
H-I-M-I-M-I-M-I-M-I-M-I-M-I-M-I-M-I-M-I-	loueud			X												
-MN7,7 -7,7 -7,7 -7,7 -7,7 -7,7 -7,7	phenol			X												
S-5) X I I I I I I I I I I I I I I I I I I	oro-M- -50-7)			X												
ichloro- X	chloro- -86-5)			X												
	lo			X												
	-Trichloro- 3-05-2)			X												
EPA Form 3510-2C (8-90)	n 3510-2C (E	(06-8						PAGE	S-V-5					CON	CONTINUE ON REVERSE	EVERSE

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	2. M	2. MARK "X"			3. EFFLUENT	<u></u>		4. UNITS	S	5. INTAKE (optional)	tional)
1. POLLUTANT AND	roi .	ف	ú	a. MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	.UE c. LONG TERM AVRG. VALUE (if available)				a. LONG TERM AVERAGE VALUE	-
	TESTING BELIEVED REQUIRED PRESENT	ELIEVED 1	BELIEVED ABSENT	(1) CONCENTRATION (2) MASS	(1) CONCENTRATION (2) MASS	SS CONCENTRATION (2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION (2) MASS	b. NO. OF SS ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS	- BASE/NEUT	TRAL CON	MPOUNDS	S							
1B. Acenaphthene (83-32-9)			×								
2B. Acenaphtylene (208-96-8)			×								
3B. Anthracene (120-12-7)			X								
4B. Benzidine (92-87-5)			×								
5B. Benzo (<i>a</i>) Anthracene (56-55-3)											
6B. Benzo (a) Pyrene (50-32-8)			×								
7B. 3,4-Benzo- fluoranthene (205-99-2)			X								
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			×								
9B. Benzo (<i>k</i>) Fluoranthene (207-08-9)			X								
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X								
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			×								
12B. Bis (<i>2-</i> <i>Chloroisopropyl</i>) Ether (102-80-1)			×								
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X								
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			×								
15B. Butyl Benzyl Phthalate (85-68-7)			×								
16B. 2-Chloro- naphthalene (91-58-7)			X								
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			×								
18B. Chrysene (218-01-9)			×								
19B. Dibenzo (<i>a,h</i>) Anthracene (53-70-3)			×								
20B. 1,2-Dichloro- benzene (95-50-1)			X								
21B. 1,3-Di-chloro- benzene (541-73-1)			×								
EPA Form 3510-2C (8-90)	(8-90)					PAGE V-6				CONTINUE	CONTINUE ON PAGE V-7

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	>	O MADIZ "V"			3 EEEI LIENT			OTINI A	TC	ATIVI	A INTAKE (continue)	
1. POLLUTANT	7	V VARIN .			S. EFFLUEIN I		(1	4. ON	2	SINING STEP	TE (optional)	
	ю	Ď.	ن	a. MAXIMUM DAILY VALUE	(if available)	VALUE (if available)	2	L		AVERAGE VALUE		L C
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION (2) MASS	(1) CONCENTRATION (2) MASS	(1) CONCENTRATION (2) MASS	ANALYSES	a. CONCENT	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	- BASE/NE	EUTRAL CC	MPOUND	S (continued)	-	-	-			•	-	
22B. 1,4-Dichloro- benzene (106-46-7)			X									
23B. 3,3-Dichloro- benzidine (91-94-1)			×									
24B. Diethyl Phthalate (84-66-2)			×									
25B. Dimethyl Phthalate (131 -11-3)			X									
26B. Di-N-Butyl Phthalate (84-74-2)			×									
27B. 2,4-Dinitro- toluene (121-14-2)			X									
28B. 2,6-Dinitro- toluene (606-20-2)			X									
29B. Di-N-Octyl Phthalate (117-84-0)			X									
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X									
31B. Fluoranthene (206-44-0)			X									
32B. Fluorene (86-73-7)			X									
33B. Hexachlorobenzene (118-74-1)			X									
34B. Hexachloro- butadiene (87-68-3)			X									
35B. Hexachloro-cyclopentadiene (77.47.4)			X									
36B Hexachloro- ethane (67-72-1)			X									
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X									
38B. Isophorone (78-59-1)			X									
39B. Naphthalene (91-20-3)			X									
40B. Nitrobenzene (98-95-3)			X									
41B. N-Nitro- sodimethylamine (62-75-9)			X									
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X									
EPA Form 3510-2C (8-90)	(8-90)				PAGE V-7	Z-A:				CON	CONTINUE ON REVERSE	EVERSE

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	2. MARK "X"			3. EFFLUENT			4. UNITS		5. INTAKE (optional)	tional)
T. POLLU JAN I			a. MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	c. LONG TERM AVRG. VALUE (if available)				a. LONG TERM AVERAGE VALUE	
	TESTING BELIEVED REQUIRED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION (2) MASS	(1) CONCENTRATION (2) MASS	CONCENTRATION (2) MASS	a. NO. OF ANALYSES	a. CONCEN- TRATION b	b. MASS	(1) CONCENTRATION (2) MASS	b. NO. OF ASS ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	SE/NEUTRAL CC	OMPOUND	S (continued)							
43B. N-Nitro- sodiphenylamine (86-30-6)		X								
44B. Phenanthrene (85-01-8)		×								
45B. Pyrene (129-00-0)		×								
46B. 1,2,4-Tri- chlorobenzene (120-82-1)		X								
RACTION	- PESTICIDES		-	-	-	-	-		-	
1P. Aldrin (309-00-2)		×								
2P. α-BHC (319-84-6)		×								
3P. β-BHC (319-85-7)		×								
4P. γ-BHC (58-89-9)		×								
5P. 8-BHC (319-86-8)		×								
6P. Chlordane (57-74-9)		×								
7P. 4,4'-DDT (50-29-3)		×								
8P. 4,4'-DDE (72-55-9)		×								
9P. 4,4'-DDD (72-54-8)		×								
10P. Dieldrin (60-57-1)		×								
11P. α -Enosulfan (115-29-7)		×								
12P. β-Endosulfan (115-29-7)		×								
13P. Endosulfan Sulfate (1031-07-8)		×								
14P. Endrin (72-20-8)		×								
15P. Endrin Aldehyde (7421-93-4)		X								
16P. Heptachlor (76-44-8)		×								
EPA Form 3510-2C (8-90)				PAGE V-8	V-8				CONTINUE	CONTINUE ON PAGE V-9

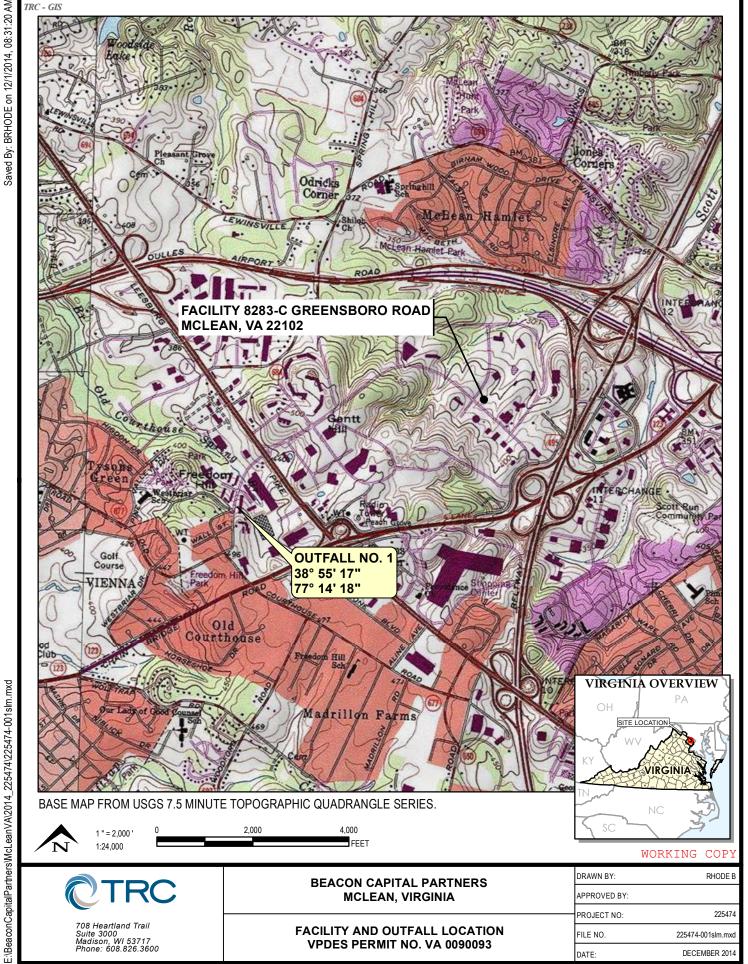
CONTINUED FROM PAGE V-8	M PAGE V-	3													
	. 4	2. MARK "X"				3. E	3. EFFLUENT				4. UNITS	TS	5. INTAK	5. INTAKE (optional)	
1. POLLUTANT AND	ю	ڼ	ن	a. MAXIMUM DAILY VALUE	LY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	DAY VALUE	c. LONG TERM AVRG. VALUE (if available)					a. LONG TERM AVERAGE VALUE		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION (2) MASS	(2) MASS AN	d. NO. OF	a. CONCENTRATION	b. MASS	(1) CONCENTRATION	(2) MASS A	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)	- PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			×												
20P. PCB-1221 (11104-28-2)			×												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												
EPA Form 3510-2C (8-90)	(8-90)						PAGE V-9	6-/							

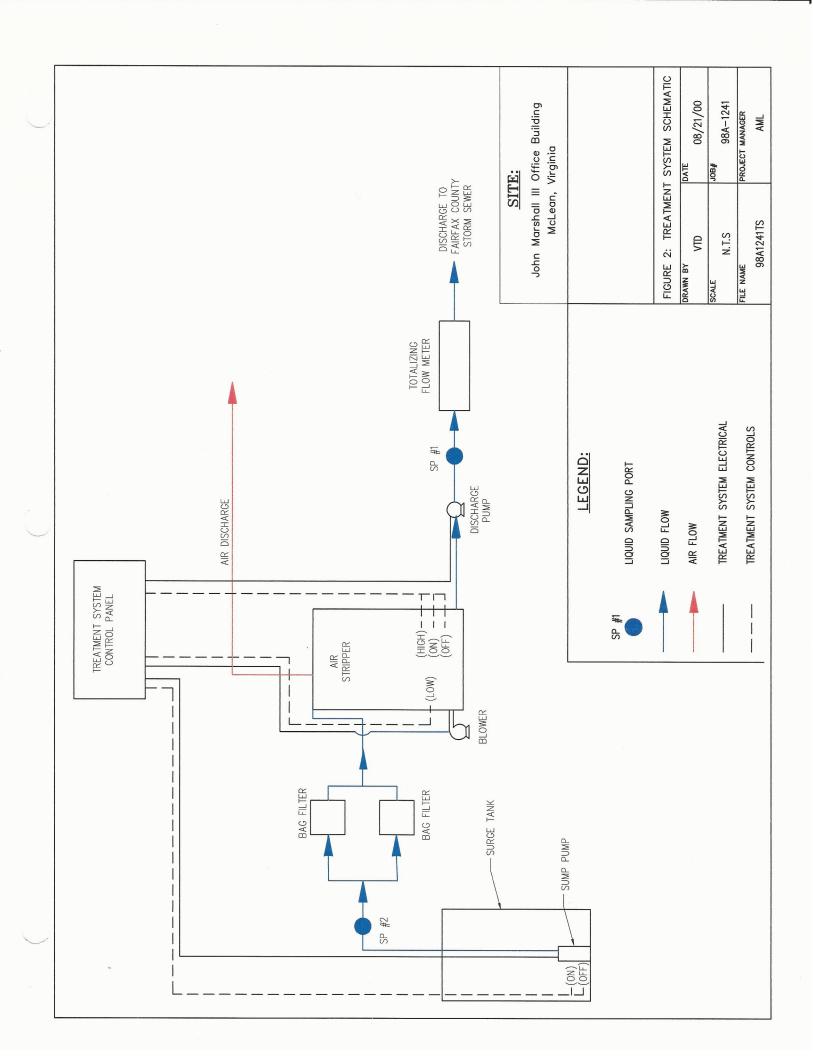
OUTFALL NUMBER

EPA I.D. NUMBER (copy from Item 1 of Form 1)

EPA Form 3510-2C (8-90)

Enclosure 4 Location Map





Enclosure 5 Analytical Data



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Attn:

Mike Ellis TRC Solutions 243 Church Street NW Vienna, VA 22180

Phone: (703) 242-6082

Fax:

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 10/17/2014. The results are tabulated on the attached data pages for the following client designated project:

John Marshall

The reference number for these samples is EMSL Order #011405685. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

10/21/2014

Julie Smith - Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted. NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

http://www.EMSL.com

EnvChemistry2@emsl.com

EMSL Order: CustomerID:

011405685 TRCV42

225855

CustomerPO:

ProjectID:

Attn: Mike Ellis **TRC Solutions**

243 Church Street NW Vienna, VA 22180

Phone:

(703) 242-6082

Fax:

Received:

10/17/14 9:20 AM

Project: John Marshall

Analytical Results

Client Sample Description

Collected:

10/16/2014

Lab ID: 0001

Method 624-Volatiles Parameter See Attached

JM-01

Result

RLUnits

N/A

Prep Date

10/20/2014 WF

Analysis Analyst Date

10/20/2014

Analyst WF

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit

EMSL Analytical Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	JM-01		
Lab Name:	EMSL ANALYTICAL				
EMSL Sample ID:	011405685-0001	Project:			
Lab File ID:	T6293.D	Sample Matrix:	Waste Wate	r	
Instrument ID:	VOA MSD-T	Sampling Date:	10/16/2014		
Analyst:	WRF	Analysis Date	10/20/2014 2	2:13:00 PM	
GC Column:	RTX-VMS (0.25 mm)	Level (low/med):	LOW		
Sample wt/vol:	5 ML	Nominal Amount:	5 ML		
Dilution Factor:	1	Method:	EPA 624		
Heated Purge (Y/N):	N				
CAS NO	С	OMPOUND	Report Limit (µg/L)	CONC. (µg/L)	Q
75-01-4	Vinyl chloride		5.0		U
156-60-5	trans-1,2-Dichloroethene		1.0		U
156-59-2	cis-1,2-Dichloroethene		1.0	40	
79-01-6	Trichloroethene	,	5.0	340	D1
Qualifier Definitions J = Undetected			•	0.0	
B = Condetected B = Compound detected E = Estimated value J = Estimated concentrati D = Dilution					

Printed: 10/21/14 09:25:32 AM

SampleList: 102014T ERM: K:\EMSL_ENV\ERMs\VOAERMS\624ERMS\624ALL-OFF@ge 3 of 3



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

Mike Ellis TRC Solutions 243 Church Street NW Vienna, VA 22180

Phone: (703) 242-6082

Fax:

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 11/20/2014. The results are tabulated on the attached data pages for the following client designated project:

JM III

The reference number for these samples is EMSL Order #011406420. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

11/21/2014

Julie Smith - Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted. NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

EnvChemistry2@emsl.com http://www.EMSL.com

EMSL Order:

011406420

CustomerID: CustomerPO: TRCV42 225855

ProjectID:

Mike Ellis **TRC Solutions** 243 Church Street NW Vienna, VA 22180

Phone:

(703) 242-6082

Fax:

Received:

11/20/14 9:30 AM

Project: JM III

Attn:

Analytical Results

Client Sample Description (2) JMIII-01 Collected:

11/19/2014

Lab ID: 0001

3:00:00 PM

Parameter

Result

RL Units

Prep Date

Date Analyst

Analysis Analyst

624-Volatiles

N/A

WF

Method

See Attached

11/20/2014

11/20/2014

WF

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit

EMSL Analytical Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

320

		Customer Sample#:	(2) JMII	I-01	
Lab Name:					
EMSL Sample ID:	011406420-0001	Project:			
Lab File ID:	T6550.D	Sample Matrix:	Waste Wate	•	
Instrument ID:	VOA MSD-T	Sampling Date:	11/19/2014		-
Analyst:	WRF	Analysis Date	11/20/2014 6	6:59:00 PM	
GC Column:	RTX-VMS X 60m (0.25	Level (low/med):	LOW	# 1 · · · · · · · · · · · · · · · · · ·	
Sample wt/vol:	5 ML	Nominal Amount:	5 ML		
Dilution Factor:	1	Method:	EPA 624		
Heated Purge (Y/N):	N				
CAS NO	Co	OMPOUND	Report Limit (µg/L)	CONC. (µg/L)	Q
75-01-4	Vinyl chloride	The second secon	5.0		U
156-60-5	trans-1,2-Dichloroethene		1.0		U
156-59-2					U
100-00-2	cis-1,2-Dichloroethene		1.0	38	

Qualifier Definitions

U = Undetected

B = Compound detected in method blank

E = Estimated value

J = Estimated concentration.

D = Dilution

D1 = T6554.D (Analysis Time: 11/21/14 08:28:00, Dil. Factor= 5.0)



Environmental Chemistry Chain of Custody EMSL Order Number (Lab Use Only):

CINNAMINS PHONE (8)

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE. (800) 220-3675 FAX: (856) 786-5974

	1 1 1									
Report To Contact Name: Michael J Ellie	Michael	מ	illus			5	Bill To Company:	14: SAM		
Company Name: TRC.	Soluhons.	ons.				Att	Attention To:			
Street: 243 Church Shaeet.	2 Sheed	دل				Street:	vet:			
City: Vienne	State/Province:		72	Zip/Postal C	Zip/Postal Code: 2 2 1% D	Clty:	r.	State/P	State/Province:	Zip/Postal Code:
Phone: 857 243 @913	5813	Fax:				Pho	Phone:		Fax:	
Project Name: JM 11								U.S. State w	U.S. State where Samples Collected: VR	ected: VA
Number of Samples in Shipment:	ment:)		Date of Shi	hipment: 14 14 14		se Order	Purchase Order: 725655		(Signature)	nellin
Please Provide results:	- 1		П		Email R	T stills	o: Msell	Email Results To: Myelles (a) TRC Saladians, con		
Standard Turnaround Time:	: 2 Weeks	60	The	following TA	The following TAT's are subject to lab approval:	to lab ap	proval:	W1 Week 74 Days	3 Davs 2 Da	2 Dave X 1 Dav
Fallure to complete will hinder processing of samples	ninder processi	ng of sa		Matrix	Preservative		1	Met Tether Meader	11	
Client Sample ID	Comp	Grab	Date/Tim	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	(797) Jrn	Sylamile Sylamile Massaralis	ارد کرد		Comments
(2)5MIII -01		5	1 ISPOLS	3	-		1	[]		
			100							
			1			,				
Released By (Signature)	ature)		Date	& Time	(Received By	,	Q / /	Date & Time
mall		E	11 41	1900hrs	7			4,0	11/20/14	0930
Please Indicate reporting requirements: Nasults Only Instructions or Comments:	equirements	- Re	ults Only	0.11	d QC Reduc	ed Deliv	rables 🗌 [Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other	Other	

Page 1 of pages

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

V. INTAKE AND	EFFLUE	NT CHARAC	TERIS	STICS (continu	ued from page 3	of Form 2-C)										OUTFALL NO.	
PART A –You m	nust provi	de the results	of at	least one analy	ysis for every po	ollutant in this ta	ble. Comp	plete on	e table for each	outfa	II. See instru	ctions for add	itional details.		_		
						2. EFFI	UENT						3. UNI (specify if			I. INTAKE (optional)	
		a. MAXIMU	JM DA	ILY VALUE		30 DAY VALU		c. LON	G TERM AVRG (if available)	. VAL		4 NO OF	(1 0)		a. LONG T AVERAGE	ERM	L NO 05
1. POLLUTA	ANT	(1) CONCENTRA	TION	(2) MASS	(1) CONCENTRATIO	ON (2) MASS	(1)) CONCE	NTRATION	(2)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical (Demand (BOD)	Oxygen																
b. Chemical Oxy Demand (COD)	/gen																
c. Total Organic (<i>TOC</i>)	Carbon																
d. Total Suspend Solids (TSS)	ded																
e. Ammonia (as	N)																
f. Flow		VALUE			VALUE		VALU	JE							VALUE		
g. Temperature (winter)		VALUE			VALUE		VALU	JE					°C		VALUE		
h. Temperature (summer)		VALUE			VALUE		VALU	JE					°C		VALUE		
i. pH		MINIMUM		MAXIMUM	MINIMUM	MAXIMUM							STANDARI	UNITS			
dire	ctly, or in	directly but e	expres	sly, in an efflu		guideline, you	nust provi	ide the	results of at lea	ast on	e analysis f	or that polluta	nt. For other po	ollutants for	olumn 2a for any poll which you mark co		
	2. N	IARK "X"		•			3. EFFL		_			•	4. L	JNITS		ITAKE (option	al)
1. POLLUTANT AND	a.	b.	a.	MAXIMUM DA	AILY VALUE	b. MAXIMUM (if av	30 DAY V ailable)	/ALUE	c. LONG TER (if a	RM AV vailab					a. LONG TERN VALU		
CAS NO. (if available)	BELIEVE PRESEN		CON	(1) ICENTRATION	(2) MASS	(1) CONCENTRATIO	N (2) N	MASS	(1) CONCENTRAT	ION	(2) MASS	d. NO. OF ANALYSES			SS (1) CONCENTRATION	N (2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)																	
b. Chlorine, Total Residual																	
c. Color																	
d. Fecal Coliform																	
e. Fluoride (16984-48-8)																	
f. Nitrate-Nitrite (as N)																	

ITEM V-B CONTINUED FROM FRONT

TIEW V-B CONT	2. MAI				3.	EFFLUENT				4. UNI	TS	5. INT	AKE (option	al)
1. POLLUTANT AND	a.	b.	a. MAXIMUM DA	ΔΙΙ Υ \/ΔΙ ΙΙΕ	b. MAXIMUM 30 (if availa	DAY VALUE	c. LONG TERM A (if availa	VRG. VALUE				a. LONG TE AVERAGE V	ERM	
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)			CONCENTION	(E) Na GO	GONGENTIAMION	(Z) NII (GC	CONSERVITORION	(2) WINOC				CONCENTION	(2) 100	
h. Oil and Grease														
i. Phosphorus (as P), Total (7723-14-0)														
j. Radioactivity														
(1) Alpha, Total														
(2) Beta, Total														
(3) Radium, Total														
(4) Radium 226, Total														
k. Sulfate (as SO ₄) (14808-79-8)														
I. Sulfide (as S)														
m. Sulfite (as SO ₃) (14265-45-3)														
n. Surfactants														
o. Aluminum, Total (7429-90-5)														
p. Barium, Total (7440-39-3)														
q. Boron, Total (7440-42-8)														
r. Cobalt, Total (7440-48-4)														
s. Iron, Total (7439-89-6)														
t. Magnesium, Total (7439-95-4)														
u. Molybdenum, Total (7439-98-7)														
v. Manganese, Total (7439-96-5)														
w. Tin, Total (7440-31-5)														
x. Titanium, Total (7440-32-6)														

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

addition		nd requireme													
	2	2. MARK "X	"			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	<i>l</i>)
1. POLLUTANT						b. MAXIMUM 30	DAY VALUE	c. LONG TERM	1 AVRG.				a. LONG T		
AND	a.	b. BELIEVED	C.	a. MAXIMUM DA		(if availa		VALUE (if ava					AVERAGE V		L NO 05
CAS NUMBER (if available)	REQUIRED	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
METALS, CYANIDI	E, AND TOT	TAL PHENC	DLS												
1M. Antimony, Total (7440-36-0)															
2M. Arsenic, Total (7440-38-2)															
3M. Beryllium, Total (7440-41-7)															
4M. Cadmium, Total (7440-43-9)															
5M. Chromium, Total (7440-47-3)															
6M. Copper, Total (7440-50-8)															
7M. Lead, Total (7439-92-1)															
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)															
10M. Selenium, Total (7782-49-2)															
11M. Silver, Total (7440-22-4)															
12M. Thallium, Total (7440-28-0)															
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenols, Total															
DIOXIN															<u> </u>
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)				DESCRIBE RESU	ILTS										

2. MARK "X"			3. EFFLUENT							ITS	5. INTA	ıl)			
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I	DAY VALUE	c. LONG TERM VALUE (if ava	AVRG. ailable)				a. LONG T AVERAGE V	ERM /ALUE	
CAS NUMBER (if available)	TESTING	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	l			00110211110111011	(2)	0011021111011	(2) 100	0011021111011	(2) (00				CONCENTION	(2) 100	
1V. Accrolein (107-02-8)															
2V. Acrylonitrile (107-13-1)															
3V. Benzene (71-43-2)															
4V. Bis (<i>Chloro-methyl</i>) Ether (542-88-1)															
5V. Bromoform (75-25-2)															
6V. Carbon Tetrachloride (56-23-5)															
7V. Chlorobenzene (108-90-7)															
8V. Chlorodi- bromomethane (124-48-1)															
9V. Chloroethane (75-00-3)															
10V. 2-Chloro- ethylvinyl Ether (110-75-8)															
11V. Chloroform (67-66-3)															
12V. Dichloro- bromomethane (75-27-4)															
13V. Dichloro- difluoromethane (75-71-8)															
14V. 1,1-Dichloro- ethane (75-34-3)															
15V. 1,2-Dichloro- ethane (107-06-2)															
16V. 1,1-Dichloro- ethylene (75-35-4)															
17V. 1,2-Dichloro- propane (78-87-5)															
18V. 1,3-Dichloro- propylene (542-75-6)															
19V. Ethylbenzene (100-41-4)															
20V. Methyl Bromide (74-83-9)															
21V. Methyl Chloride (74-87-3)															

	VI PAGE V-2	2. MARK "X'	,				FFLUENT				4. UN	ITS	5. INTA	el)	
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERM VALUE (if ava	A AVRG. ailable)				a. LONG T AVERAGE V	ERM /ALUE	
CAS NUMBER (if available)	TESTING	b. BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	– VOLATIL	E COMPO	JNDS (cont	inued)											
22V. Methylene Chloride (75-09-2)															
23V. 1,1,2,2- Tetrachloroethane (79-34-5)															
24V. Tetrachloro- ethylene (127-18-4)															
25V. Toluene (108-88-3)															
26V. 1,2-Trans- Dichloroethylene (156-60-5)															
27V. 1,1,1-Trichloro- ethane (71-55-6)															
28V. 1,1,2-Trichloro- ethane (79-00-5)															
29V Trichloro- ethylene (79-01-6)															
30V. Trichloro- fluoromethane (75-69-4)															
31V. Vinyl Chloride (75-01-4)															
GC/MS FRACTION	– ACID CC	MPOUNDS	;			•	•	•	•	•				•	•
1A. 2-Chlorophenol (95-57-8)															
2A. 2,4-Dichloro- phenol (120-83-2)															
3A. 2,4-Dimethyl- phenol (105-67-9)															
4A. 4,6-Dinitro-O- Cresol (534-52-1)															
5A. 2,4-Dinitro- phenol (51-28-5)															
6A. 2-Nitrophenol (88-75-5)															
7A. 4-Nitrophenol (100-02-7)															
8A. P-Chloro-M- Cresol (59-50-7)															
9A. Pentachloro- phenol (87-86-5)															
10A. Phenol (108-95-2)															
11A. 2,4,6-Trichloro- phenol (88-05-2)															

2. MARK "X"		,			3. E	FFLUENT				4. UN	ITS	5. INTAKE (optional		l)	
1. POLLUTANT AND	a. TESTING	b. BELIEVED				b. MAXIMUM 30 I	DAY VALUE	c. LONG TERM VALUE (<i>if ava</i>	1 AVRG.				a. LONG T	ERM	
CAS NUMBER			c. BELIEVED	a. MAXIMUM DA (1)	LY VALUE	(if availat	ole)	(1)		d. NO. OF	a. CONCEN-		AVERAGE V	ALUE	b. NO. OF
(if available)	L	PRESENT		CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION 1B. Acenaphthene	I – BASE/NE T	EUTRAL CC)MPOUND:	S		<u> </u>		<u> </u>					<u> </u>		
(83-32-9)															
2B. Acenaphtylene (208-96-8)															
3B. Anthracene (120-12-7)															
4B. Benzidine (92-87-5)															
5B. Benzo (a) Anthracene (56-55-3)															
6B. Benzo (<i>a</i>) Pyrene (50-32-8)															
7B. 3,4-Benzo- fluoranthene (205-99-2)															
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)															
9B. Benzo (k) Fluoranthene (207-08-9)															
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)															
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)															
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)															
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)															
14B. 4-Bromophenyl Phenyl Ether (101-55-3)															
15B. Butyl Benzyl Phthalate (85-68-7)															
16B. 2-Chloro- naphthalene (91-58-7)															
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)															
18B. Chrysene (218-01-9)															
19B. Dibenzo (a,h) Anthracene (53-70-3)															
20B. 1,2-Dichloro- benzene (95-50-1)															
21B. 1,3-Di-chloro- benzene (541-73-1)															

CONTINUED FROM	2. MARK "X"						FFLUENT				4. UN	ITS	5. INT <i>A</i>	ıl)	
1. POLLUTANT AND	a. TESTING REQUIRED	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERM VALUE (if ava					a. LONG T AVERAGE V	ERM /ALUE	
CAS NUMBER (if available)		b. BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	N – BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)															
23B. 3,3-Dichloro- benzidine (91-94-1)															
24B. Diethyl Phthalate (84-66-2)															
25B. Dimethyl Phthalate (131 -11-3)															
26B. Di-N-Butyl Phthalate (84-74-2)															
27B. 2,4-Dinitro- toluene (121-14-2)															
28B. 2,6-Dinitro- toluene (606-20-2)															
29B. Di-N-Octyl Phthalate (117-84-0)															
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)															
31B. Fluoranthene (206-44-0)															
32B. Fluorene (86-73-7)															
33B. Hexachloro- benzene (118-74-1)															
34B. Hexachloro- butadiene (87-68-3)															
35B. Hexachloro- cyclopentadiene (77-47-4)															
36B Hexachloro- ethane (67-72-1)															
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)															
38B. Isophorone (78-59-1)															
39B. Naphthalene (91-20-3)															
40B. Nitrobenzene (98-95-3)															
41B. N-Nitro- sodimethylamine (62-75-9)															
42B. N-Nitrosodi- N-Propylamine (621-64-7)															

CONTINUED FROM THE FRONT

CONTINUED FROM											4. UN			7)	
4 DOLLUTANT		2. MARK "X'	,		3. EFFLUENT							IIS	5. INTA	<i>l</i>)	
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DAI	LY VALUE	b. MAXIMUM 30 l (if availa	DAY VALUE ble)	c. LONG TERM VALUE (if ava	iilable)				a. LONG T AVERAGE V	ERM 'ALUE	
CAS NUMBER (if available)	TESTING REQUIRED	b. BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1)		b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NE	EUTRAL CO	MPOUNDS	S (continued)	•									*	
43B. N-Nitro- sodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															
45B. Pyrene (129-00-0)															
46B. 1,2,4-Tri- chlorobenzene (120-82-1)															
GC/MS FRACTION	I – PESTIC	IDES													
1P. Aldrin (309-00-2)															
2P. α-BHC (319-84-6)															
3P. β-BHC (319-85-7)															
4P. γ-BHC (58-89-9)															
5P. δ-BHC (319-86-8)															
6P. Chlordane (57-74-9)															
7P. 4,4'-DDT (50-29-3)															
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)															
11P. α-Enosulfan (115-29-7)															
12P. β-Endosulfan (115-29-7)															
13P. Endosulfan Sulfate (1031-07-8)															
14P. Endrin (72-20-8)															
15P. Endrin Aldehyde (7421-93-4)															
16P. Heptachlor (76-44-8)															

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER

CONTINUED FROM PAGE V-8

CONTINUED I NO															
		2. MARK "X	,,		3. EFFLUENT							ITS	5. INTAKE (optional)		
1. POLLUTANT AND CAS NUMBER (if available)	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERM VALUE (if ava			00110511		a. LONG TERM AVERAGE VALUE		
		BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)															
18P. PCB-1242 (53469-21-9)															
19P. PCB-1254 (11097-69-1)															
20P. PCB-1221 (11104-28-2)															
21P. PCB-1232 (11141-16-5)															
22P. PCB-1248 (12672-29-6)															
23P. PCB-1260 (11096-82-5)															
24P. PCB-1016 (12674-11-2)															
25P. Toxaphene (8001-35-2)															

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